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FIG. 1

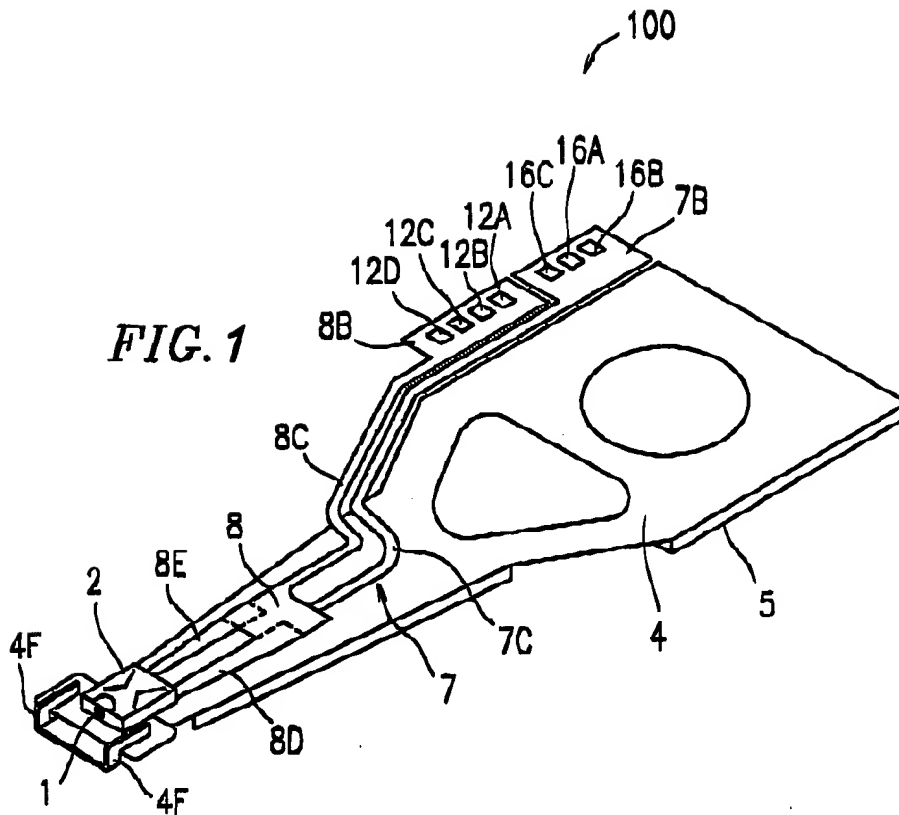


FIG. 1



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FIG. 3

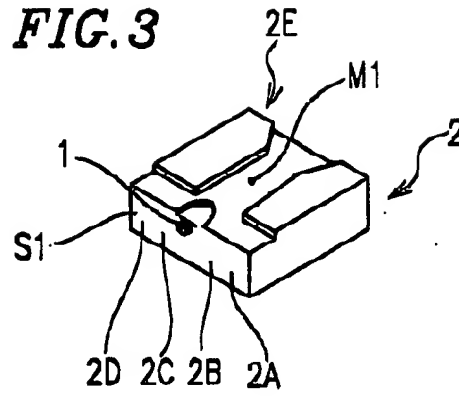


FIG. 4

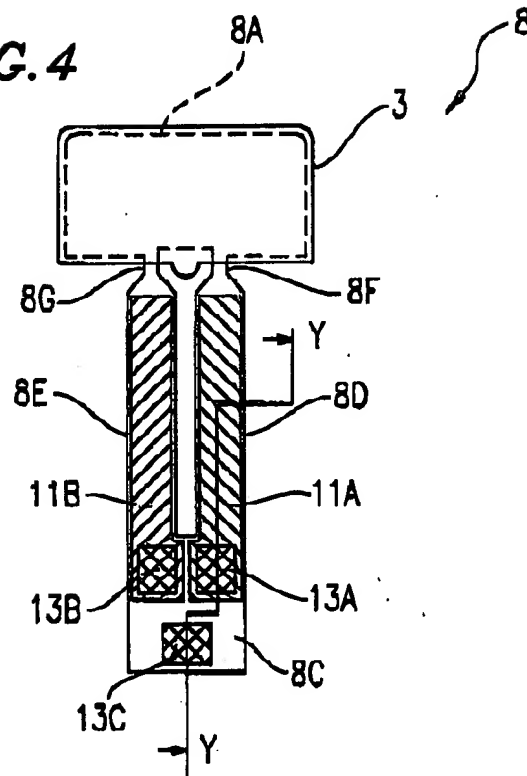


FIG. 4

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FIG. 5

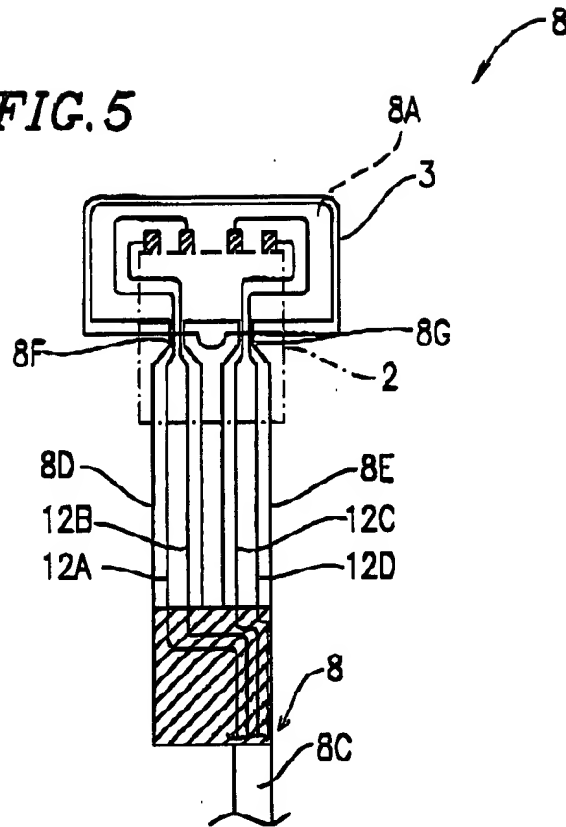
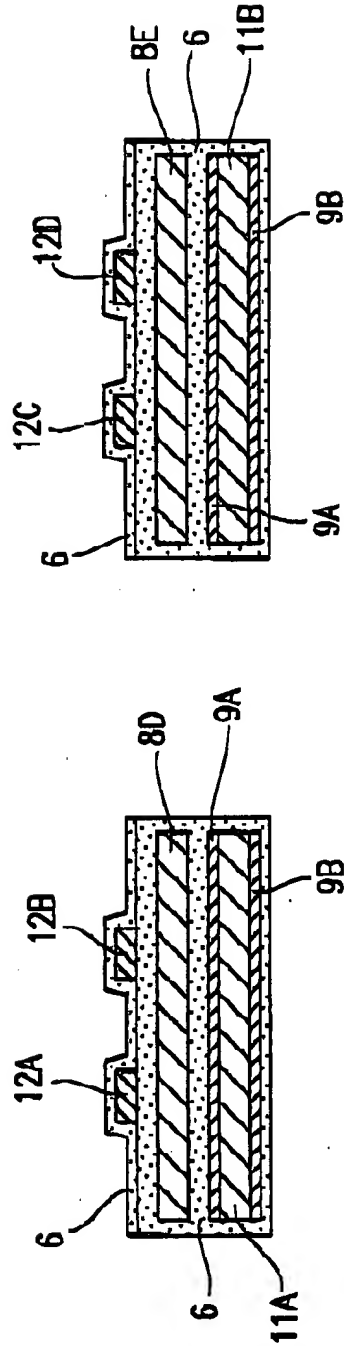


FIG. 5

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FIG. 6



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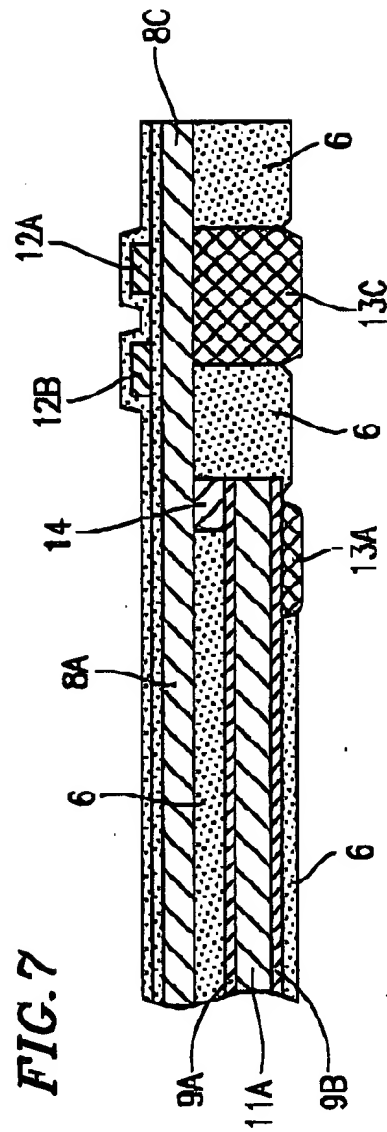
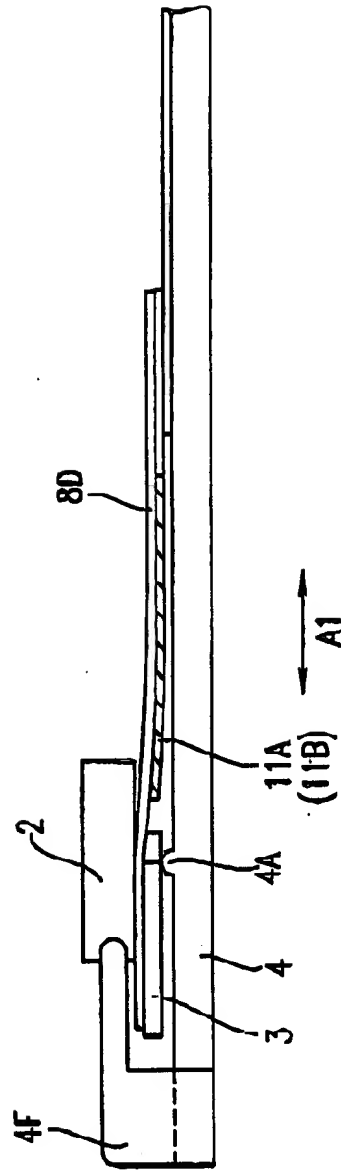


FIG. 7

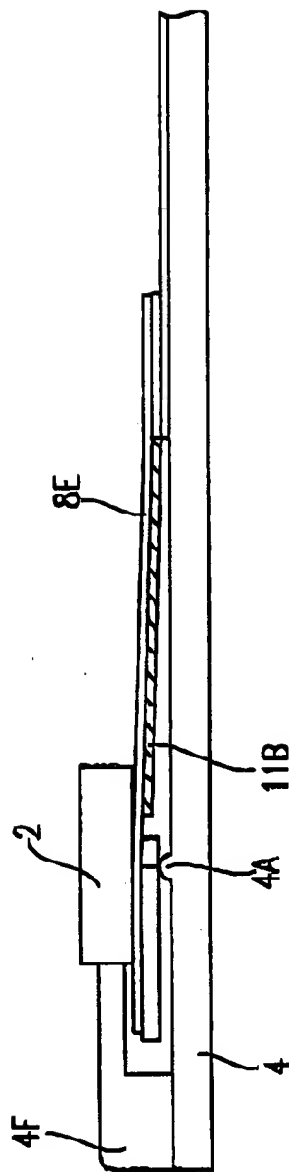
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FIG. 8



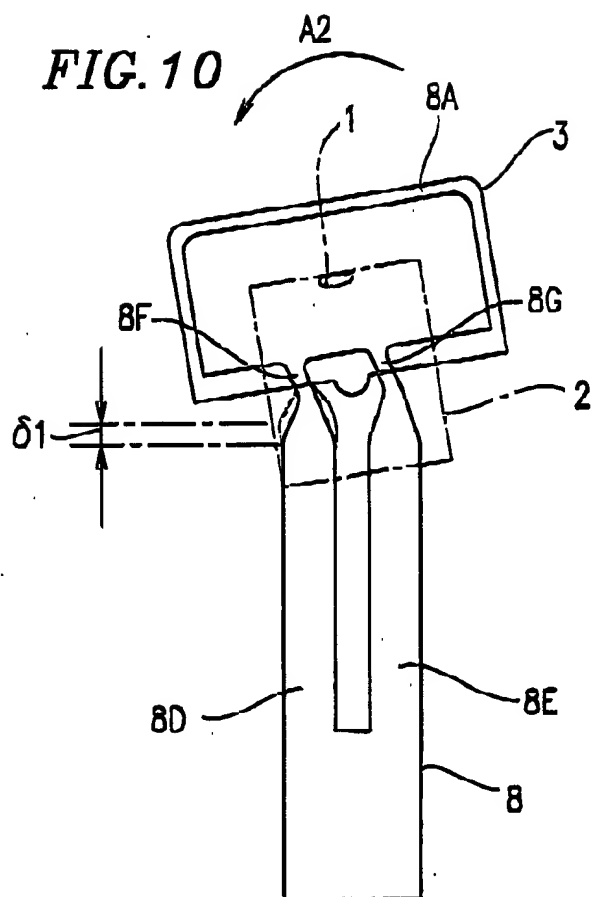
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FIG. 9





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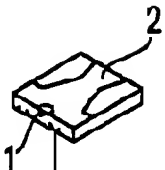


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**FIG. 12**



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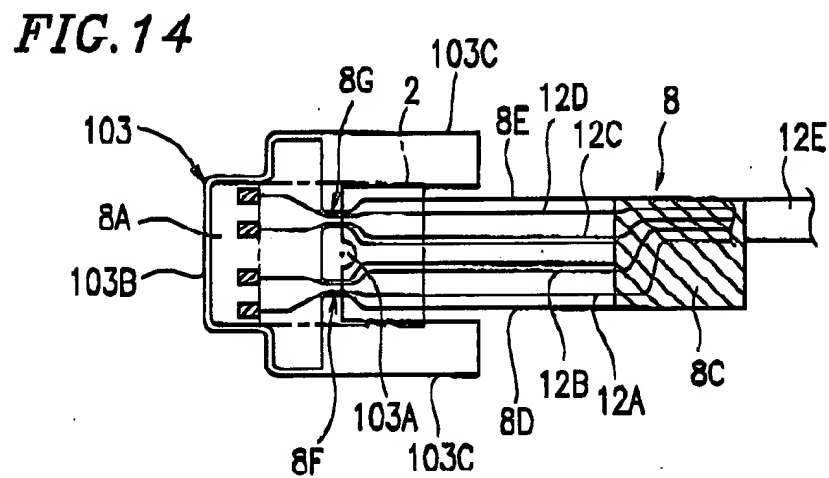
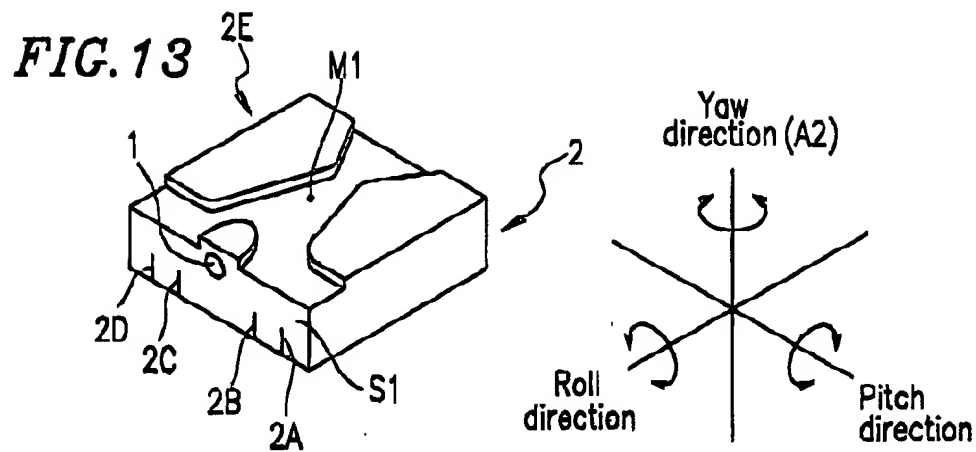
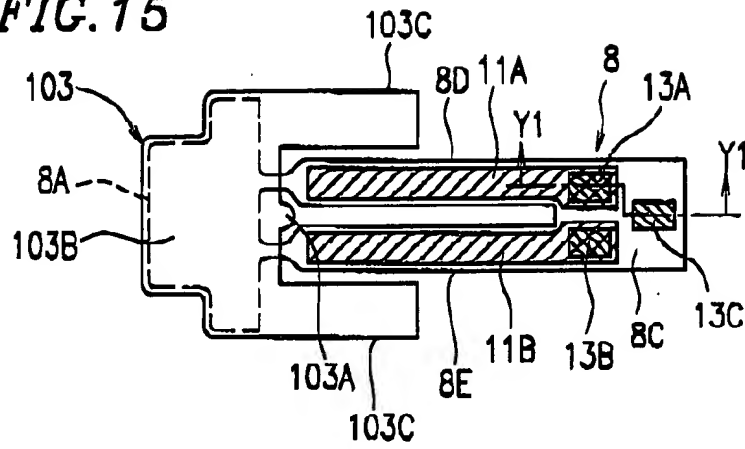


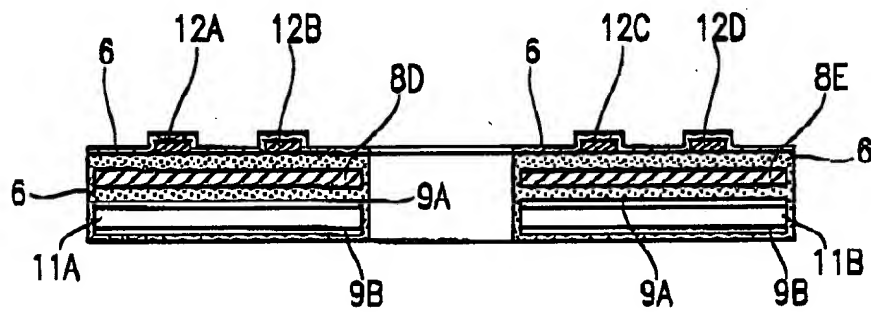
FIG. 13

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**FIG. 15**



**FIG. 16**



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FIG. 17

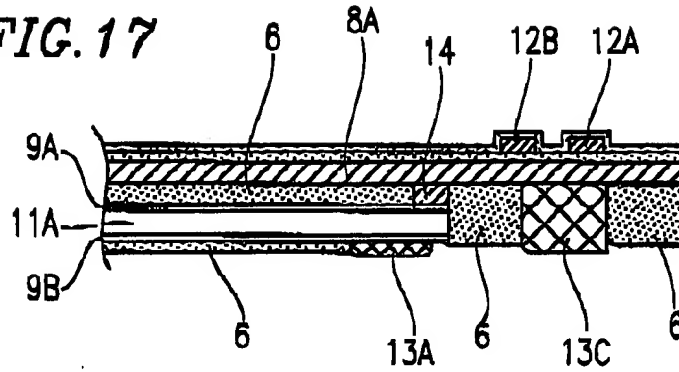


FIG. 18

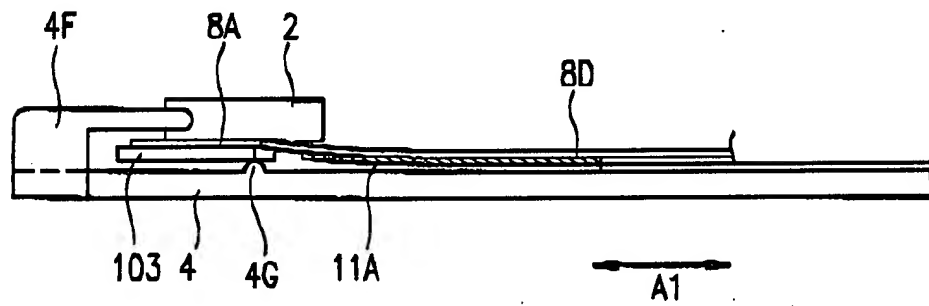
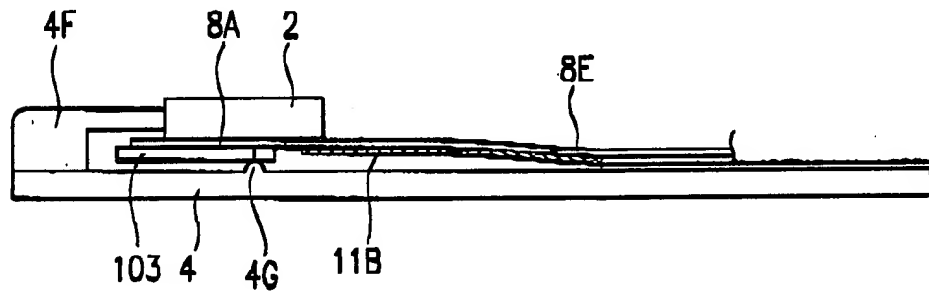


FIG. 19



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FIG. 20

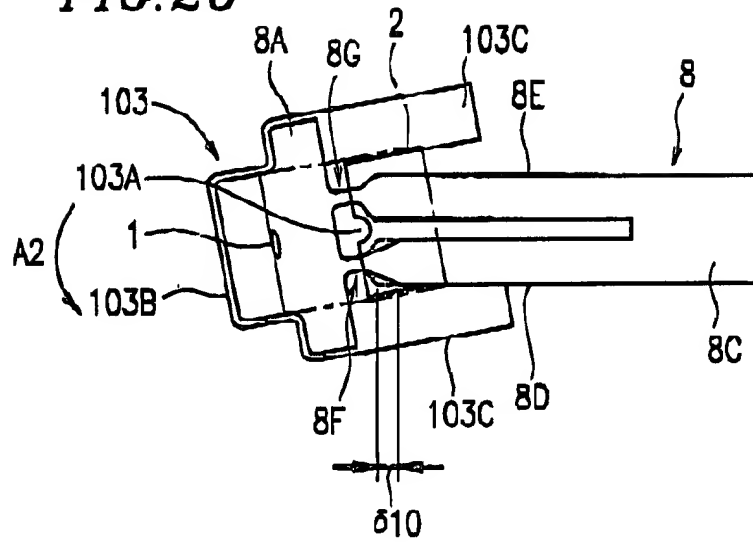


FIG. 20





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FIG. 22A

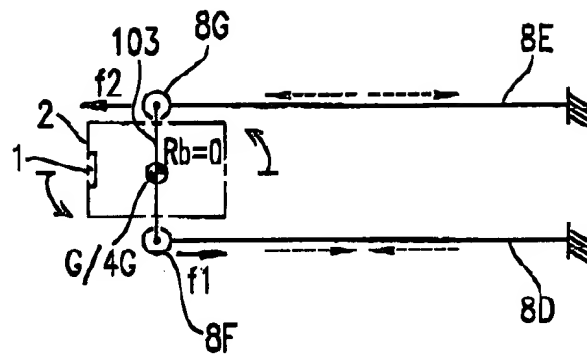


FIG. 22B

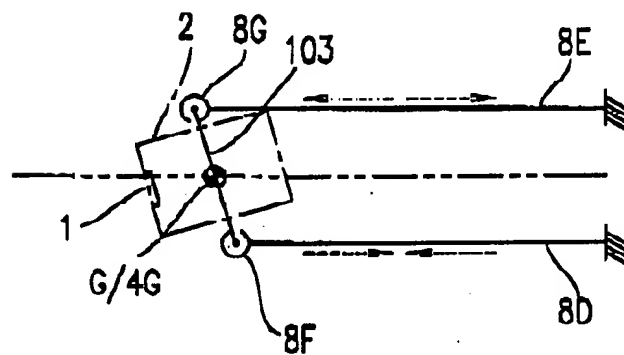
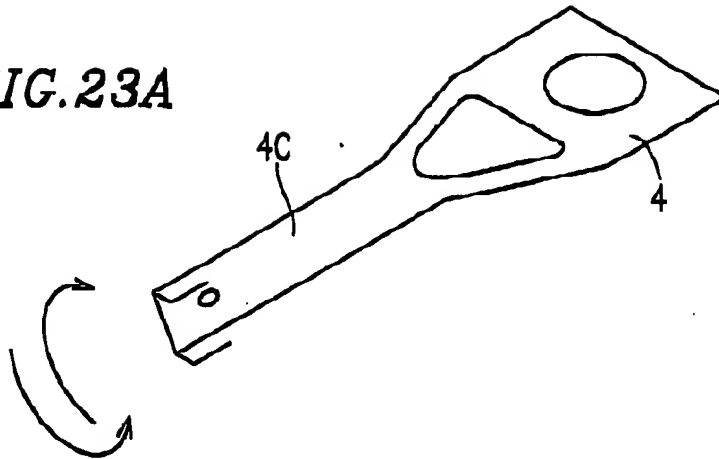


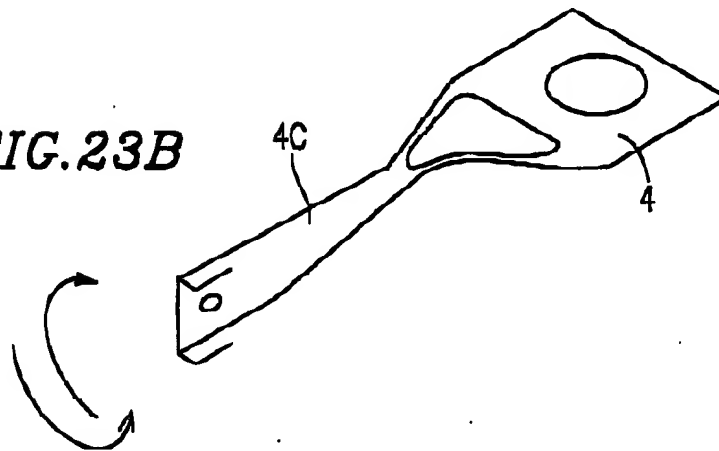
FIG. 22A

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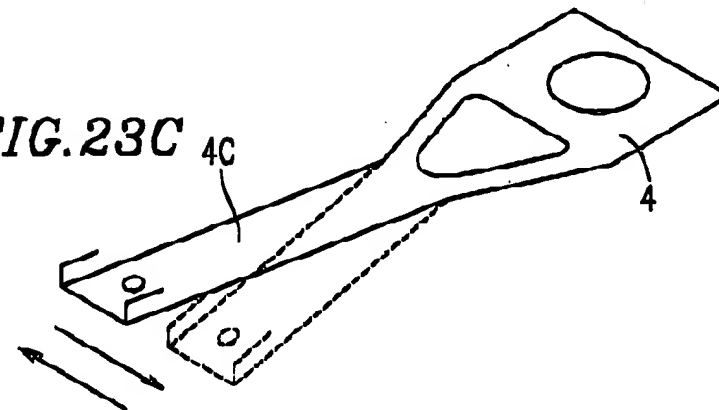
**FIG.23A**



**FIG.23B**



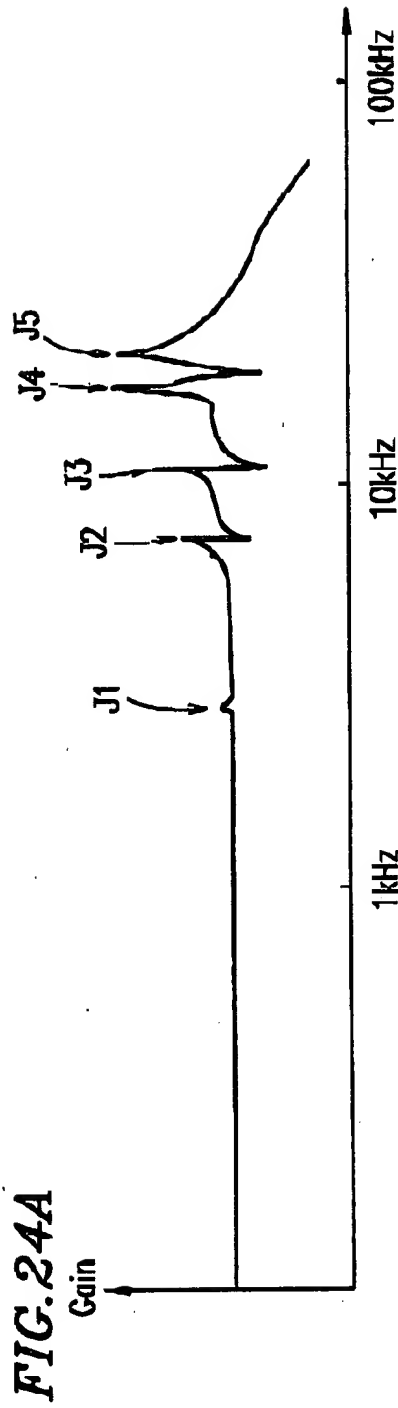
**FIG.23C**



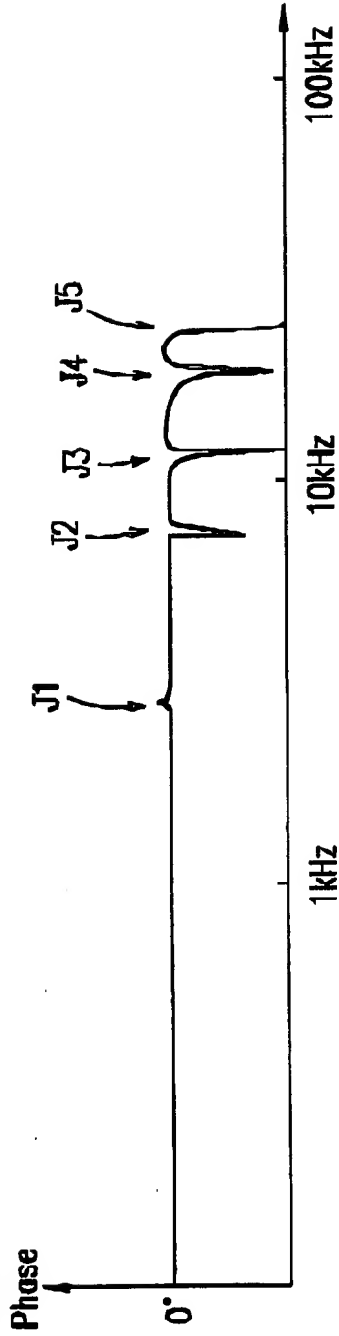
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FIG. 24A

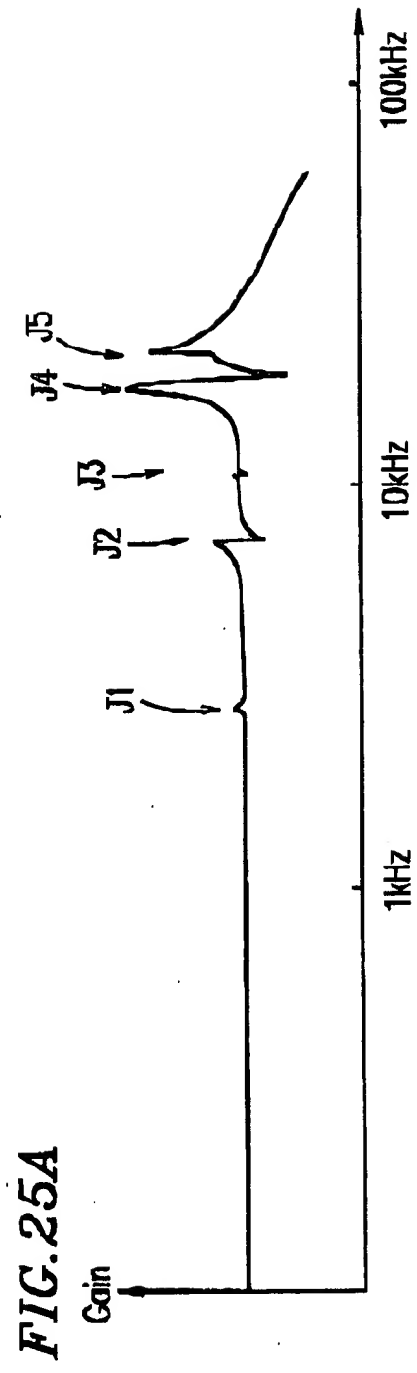


**FIG. 24B**

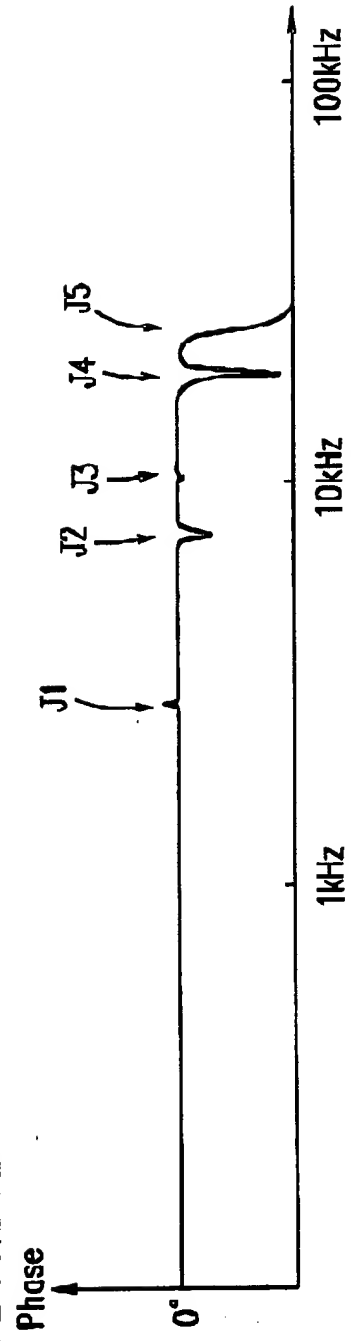


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FIG. 25A



**FIG. 25B**





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FIG. 27A

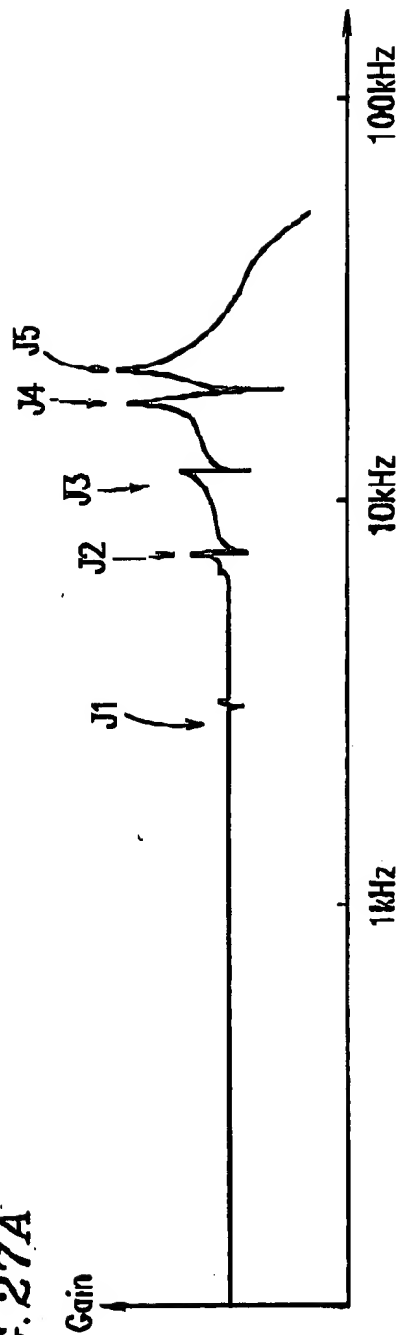
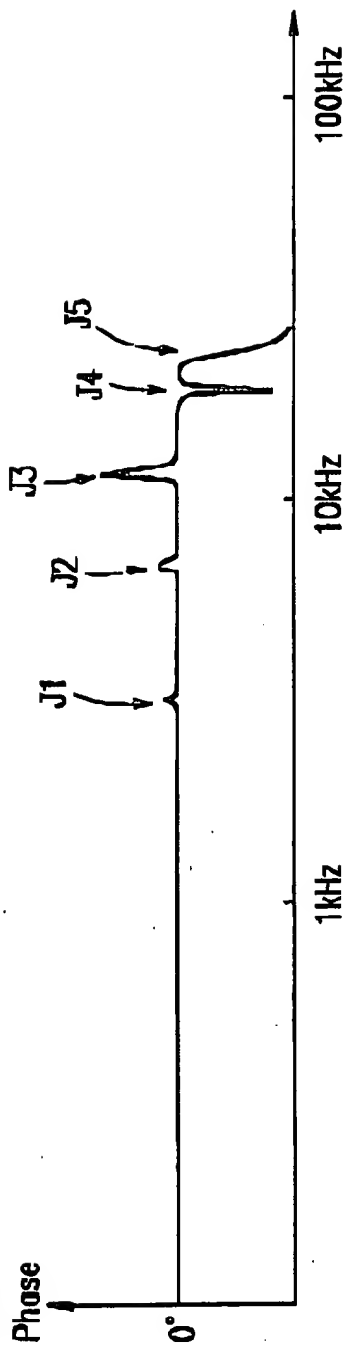


FIG. 27B



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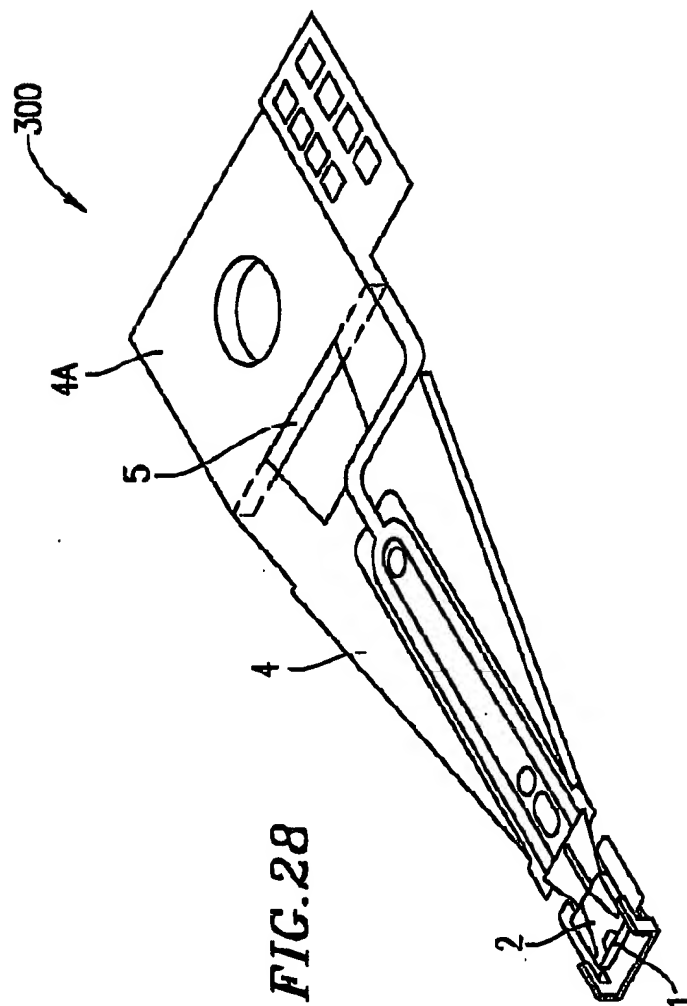
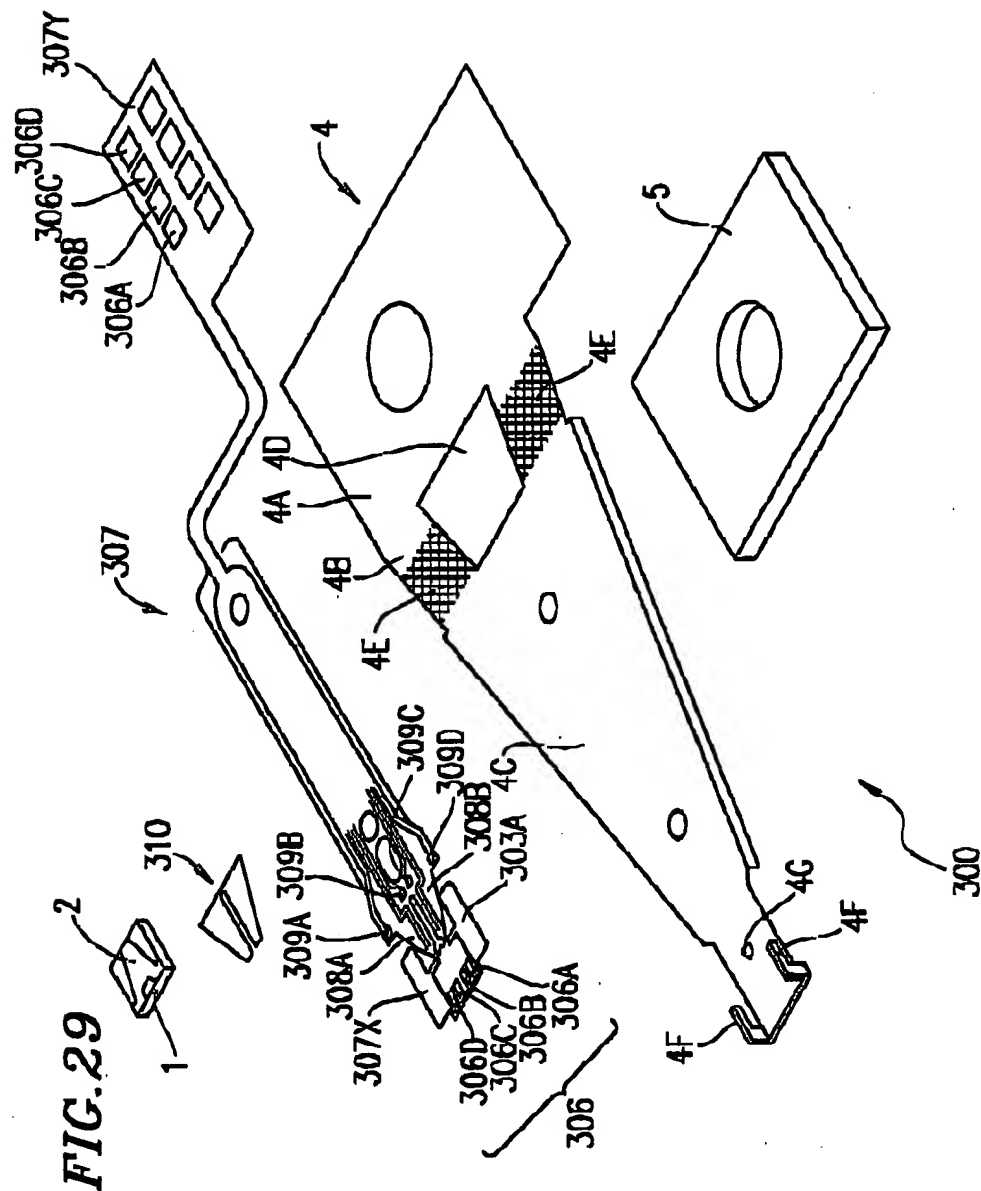


FIG. 28

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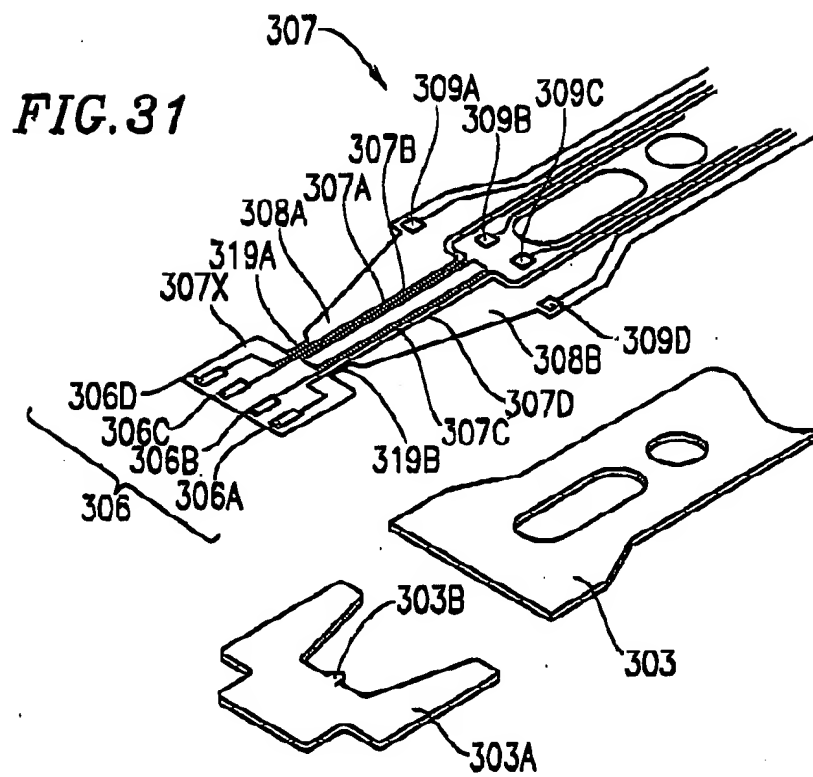
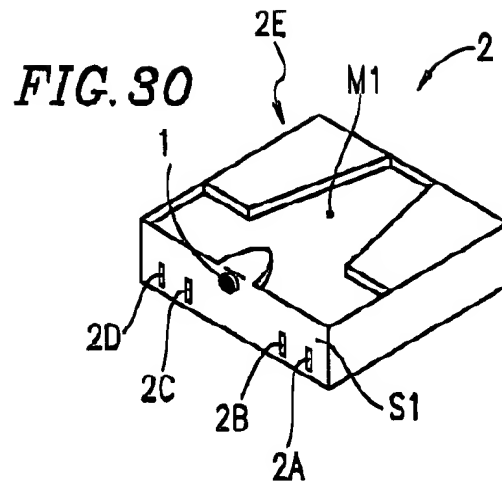


FIG. 30

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FIG. 32

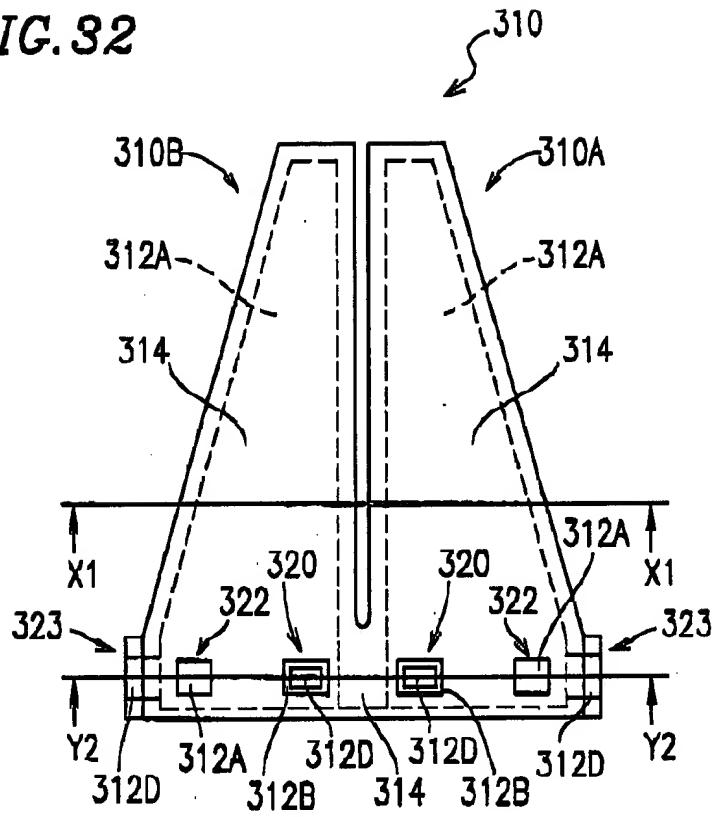
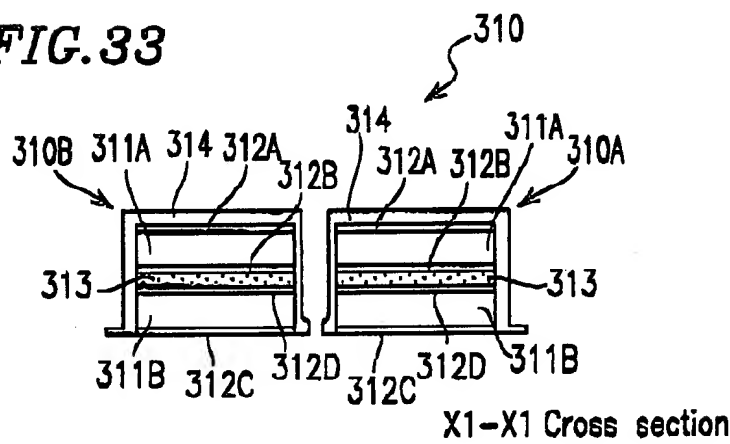


FIG. 33



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FIG. 34

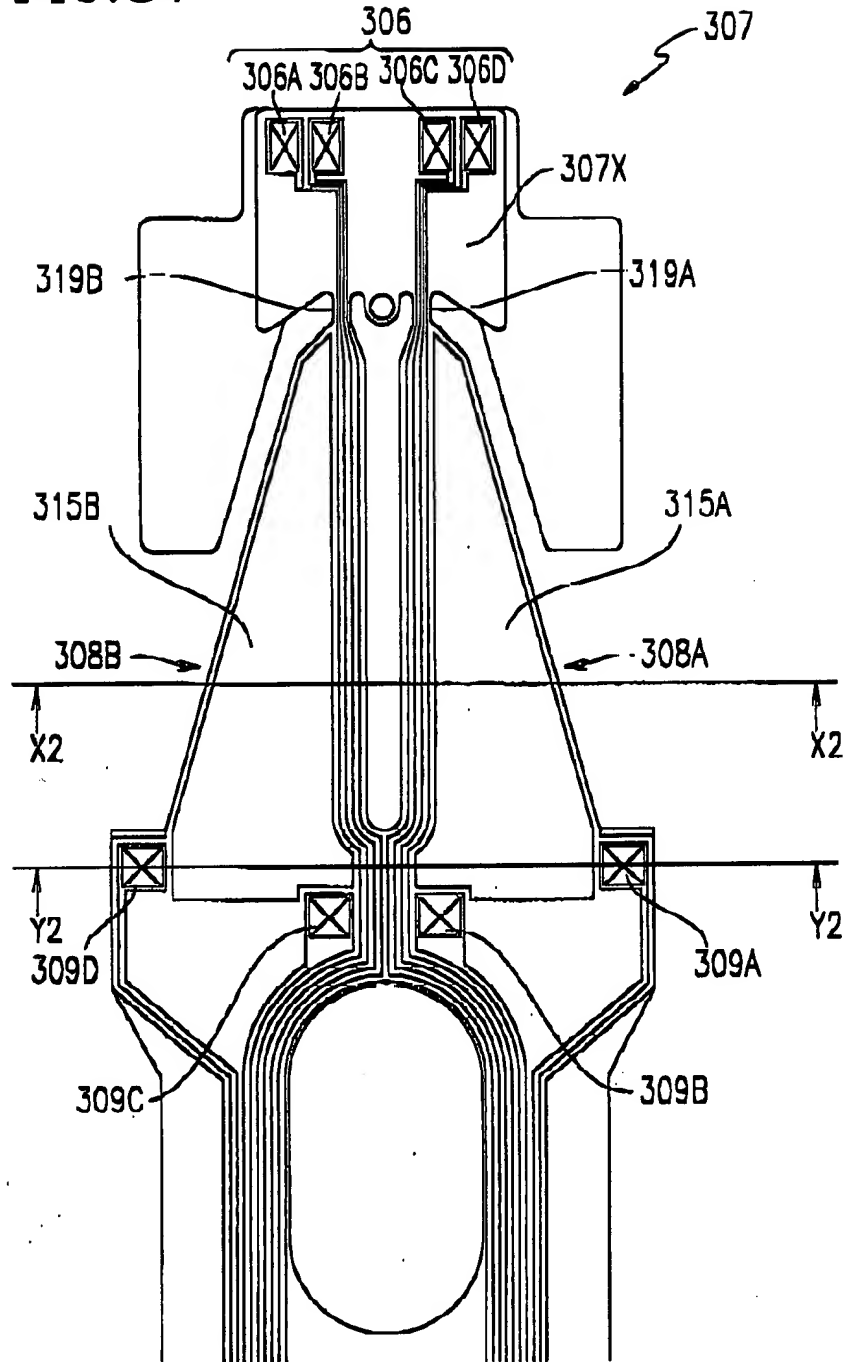
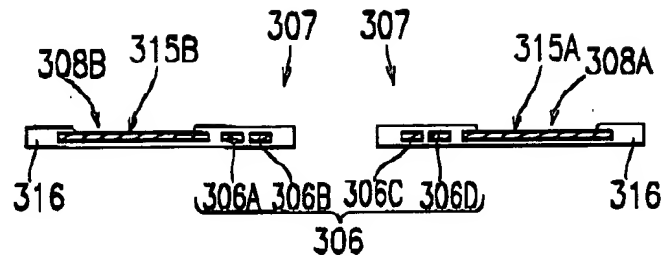


FIG. 34

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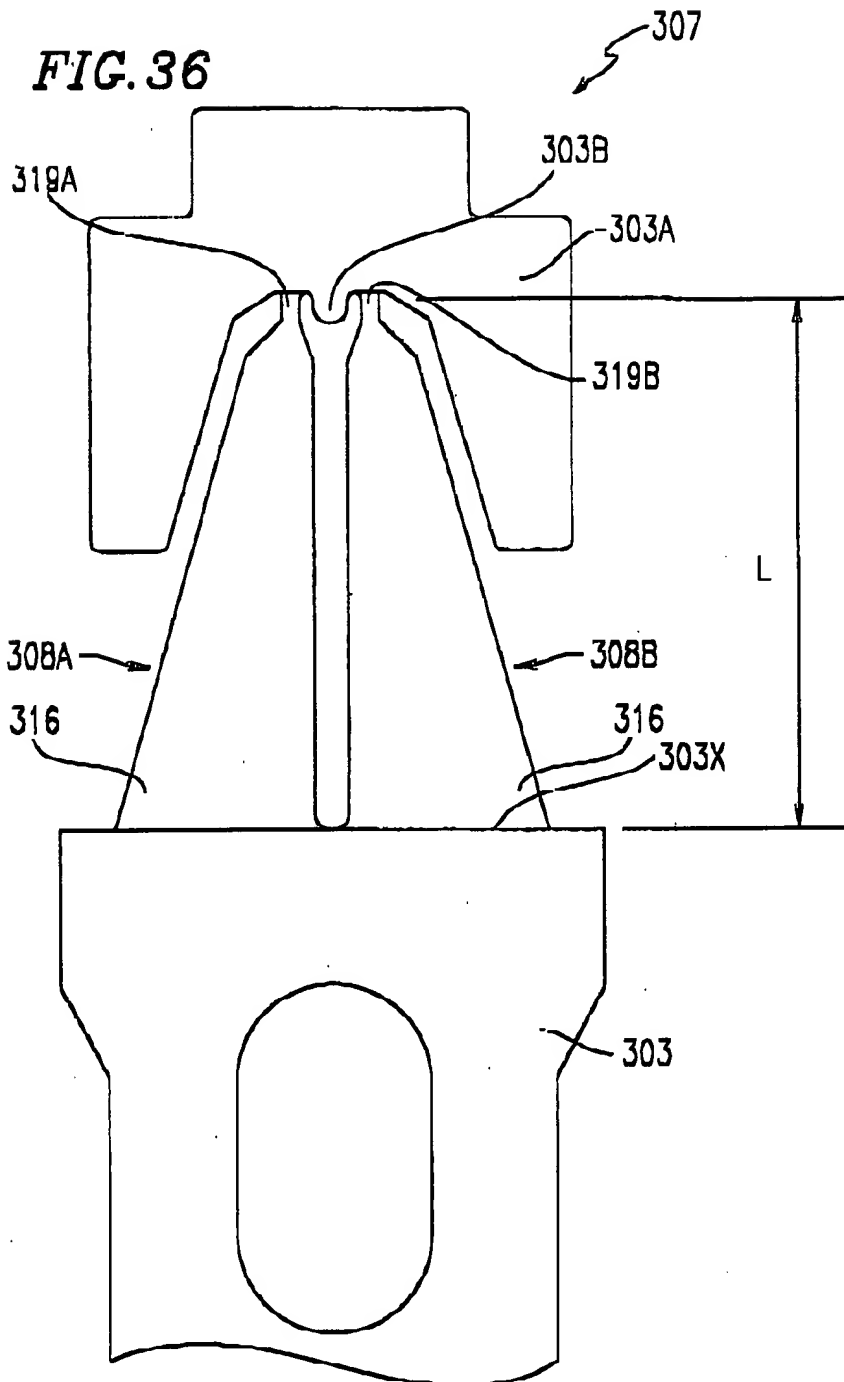
**FIG. 35**



X2-X2 Cross section

FIG. 35

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FIG. 37

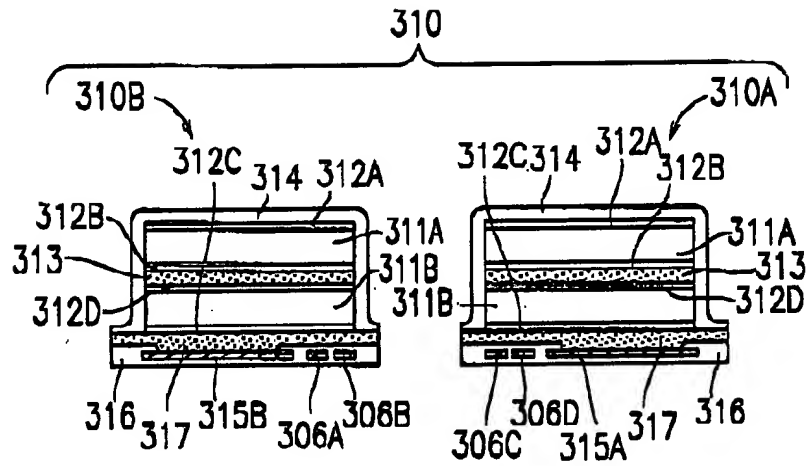
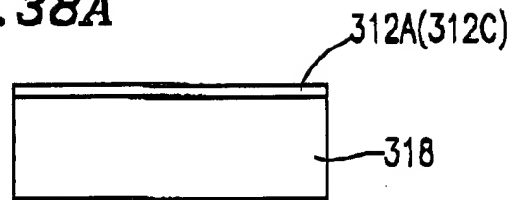


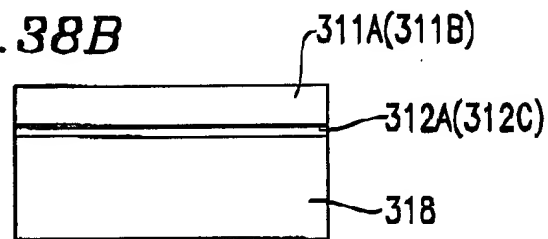
FIG. 37

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**FIG. 38A**



**FIG. 38B**



**FIG. 38C**

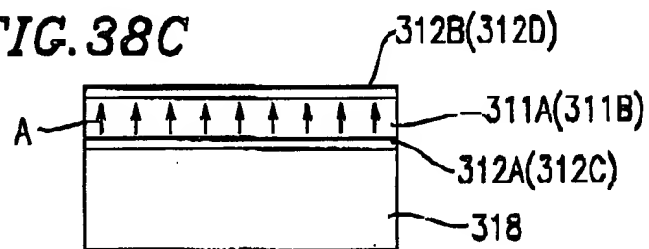


FIG. 38A

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FIG. 39A

FIG. 39A

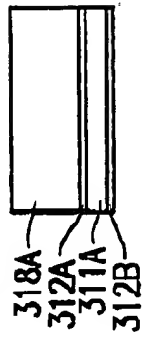


FIG. 39B

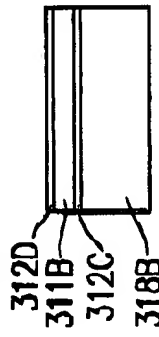


FIG. 39C

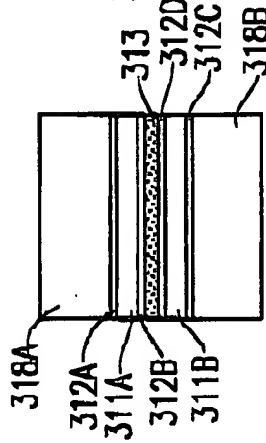


FIG. 39D

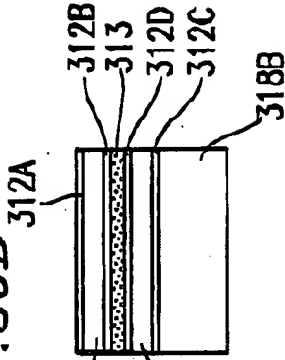


FIG. 39E

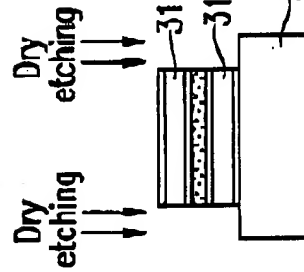


FIG. 39F

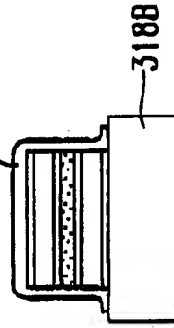


FIG. 39G



FIG. 39H





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FIG. 40

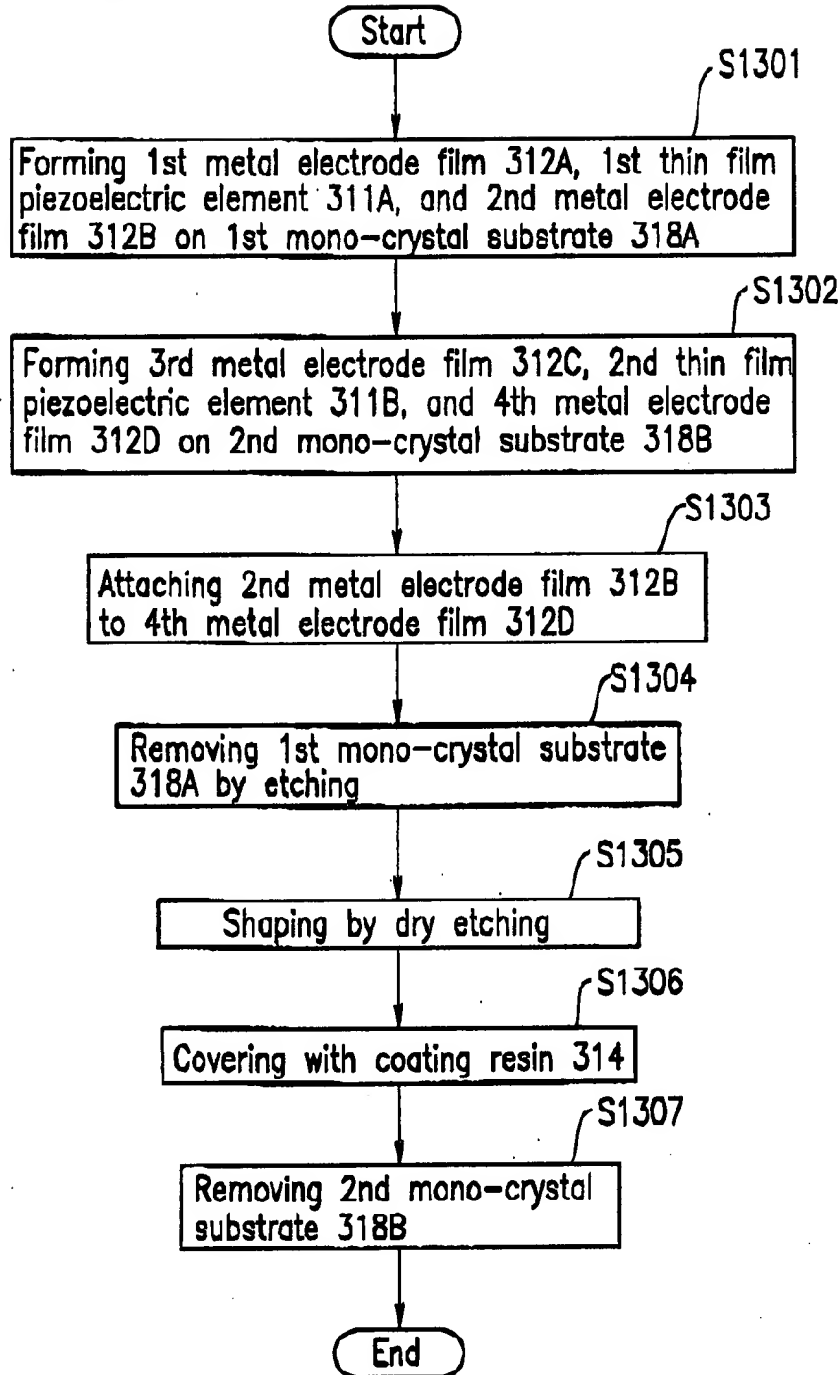


FIG. 40

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FIG. 41

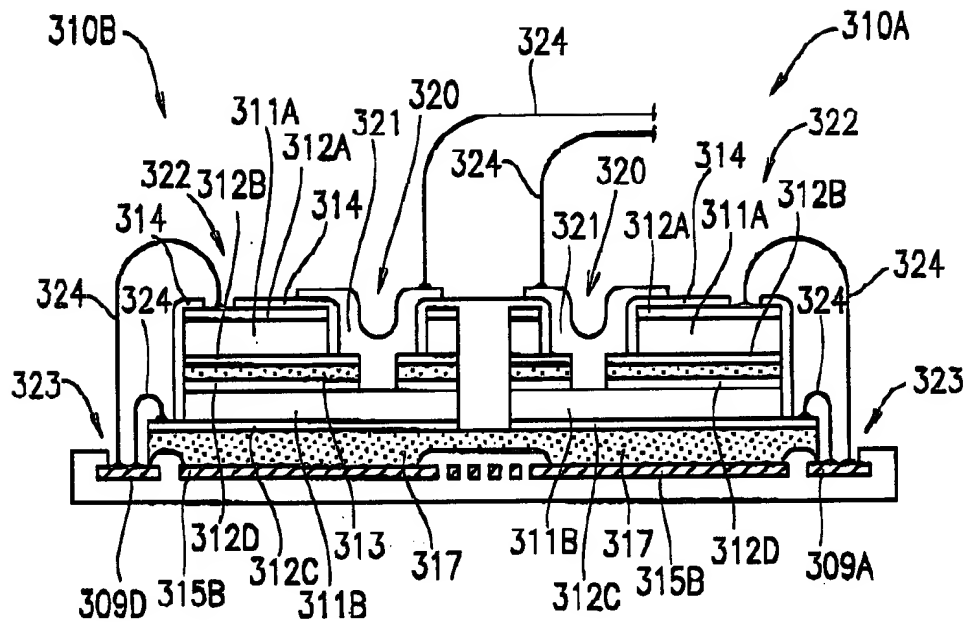
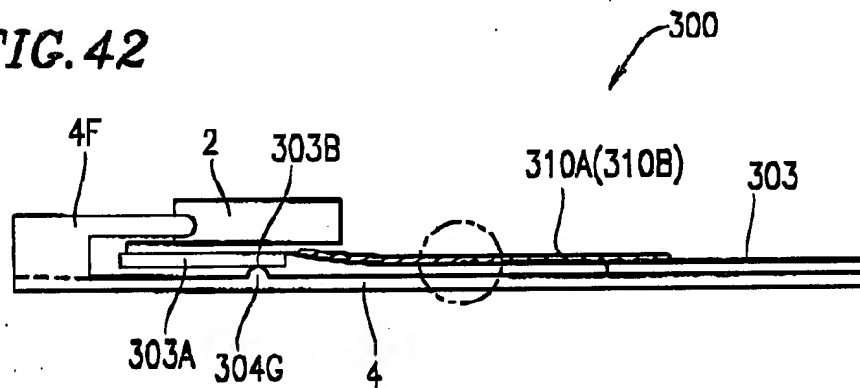


FIG. 42



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FIG. 43A

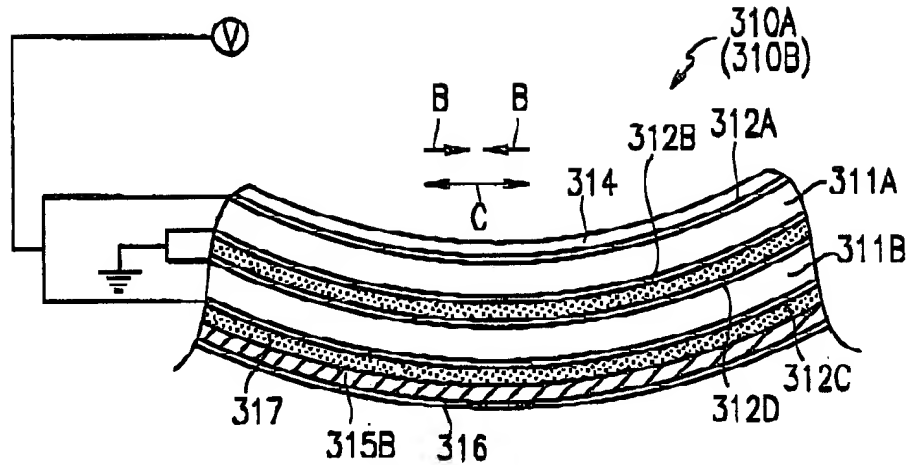


FIG. 43B

Voltage applied to  
thin film piezoelectric  
terminal 309A

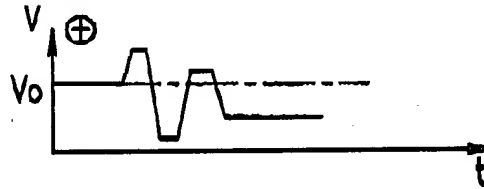


FIG. 43C

Voltage applied to  
thin film piezoelectric  
terminal 309D

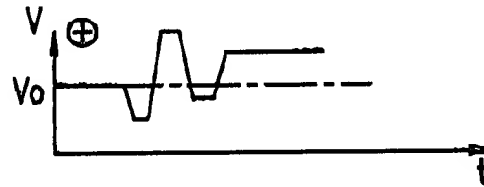


FIG. 43A

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FIG. 44A

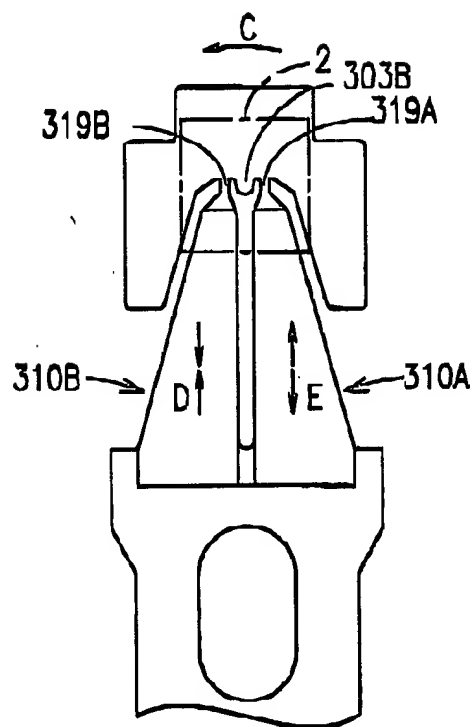


FIG. 44B

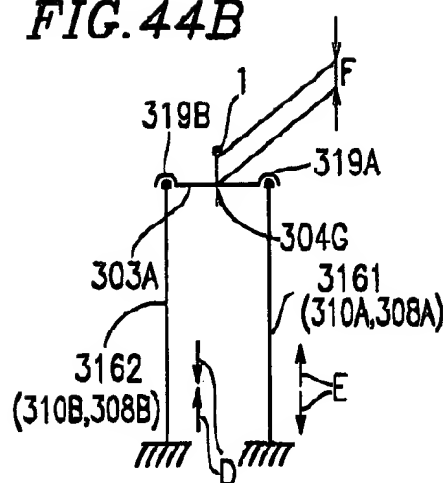
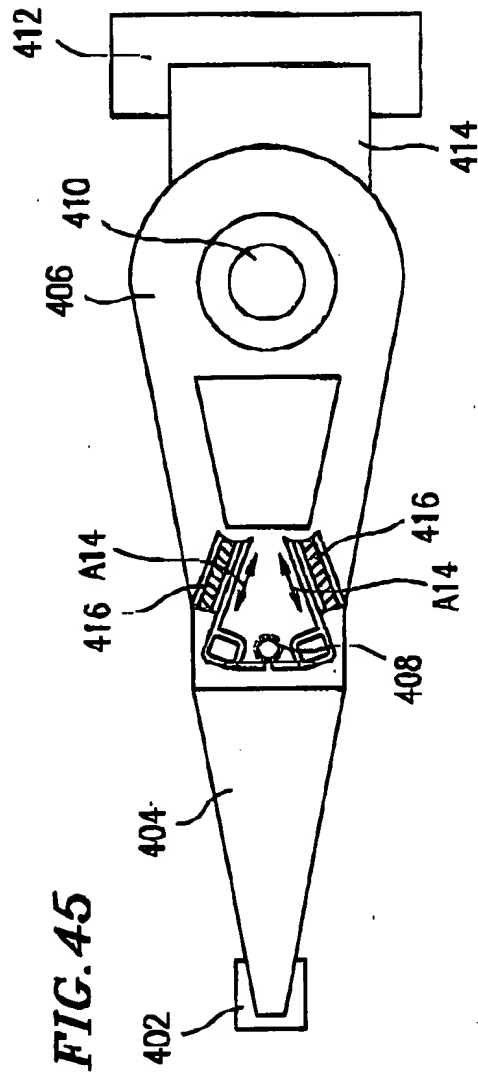


FIG. 44A

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400



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